

S
628.161
M26gsr
~~1st Qtr.~~ May
1992



**FIRST QUARTER 1992
GROUND WATER SAMPLING RESULTS
LIVINGSTON RAIL YARD
LIVINGSTON, MONTANA**

Montana State Library



3 0864 1006 4695 2



**FIRST QUARTER 1992
GROUND WATER SAMPLING RESULTS
LIVINGSTON RAIL YARD
LIVINGSTON, MONTANA**

Submitted to:

**Montana Department of Health
and Environmental Sciences
Cogswell Building
Helena, Montana 59620**

Submitted by:

**Burlington Northern Railroad Co.
9401 Indian Creek Parkway
Overland Park, Kansas 66201**

Prepared by:

**Envirocon, Inc.
101 International Way
P. O. Box 8243
Missoula, Montana 59807**

Submittal Date:

May 20, 1992



Digitized by the Internet Archive
in 2015

TABLE OF CONTENTS

	<u>Page No.</u>
1.0 INTRODUCTION	2
2.0 RESULTS	2
2.1 January 1992 Ground Water Sampling Results	2
2.2 February 1992 Ground Water Sampling Results	3
2.3 March 1992 Ground Water Sampling Results	9
2.4 Dense-Nonaqueous-Phase-Liquid Sampling.	9
APPENDICES	
APPENDIX A - JANUARY LABORATORY ANALYSES	
APPENDIX B - FEBRUARY LABORATORY ANALYSES	
APPENDIX C - MARCH LABORATORY ANALYSES	

1.0 INTRODUCTION

This report presents the results of ground water samples taken during January, February, and March 1992 at the Livingston Rail Yard (LRY), in Livingston, Montana. Ground water sampling during this period consisted of the January monthly sampling round, the February semiannual sampling round, and the March monthly sampling round.

2.0 RESULTS

The results for the three sampling events are presented separately below.

2.1 January 1992 Ground Water Sampling Results

One ground water sample was collected at Monitoring Well LG-10 and two samples (one duplicate) were collected at Monitoring Well 89-2 on January 21, 1992. The B-Street Municipal Well was not sampled because it was not operating during January 1992. The samples were analyzed for chlorinated volatile organic compounds (VOCs) by EPA Method 601 at Energy Laboratories, Inc. The analytical results and a data validation report for this sampling round are included in Appendix A. No chlorinated VOCs were detected in the sample from Monitoring Well 89-2. As shown in the results in Appendix A, a concentration of 0.5 parts per billion (ppb) of 1,1,1-trichloroethane (1,1,1-TCA) was detected in Monitoring Well LG-10. The detection limit for 1,1,1-TCA is 0.5 ppb. This is the first time 1,1,1-TCA has been detected in any of the monitoring wells. 1,1,1-TCA is not detected in the ground water around any of the LRY VOC sources. Monitor Well LG-10 is located in downtown Livingston and is not downgradient from any LRY VOC sources.

2.2 February 1992 Ground Water Sampling Results

The February 1992 semiannual ground water sampling round was conducted on February 25 through March 3, 1992. Forty-six samples were analyzed as part of this event: forty samples were collected at monitoring and private wells located within and around the LRY, five samples were trip blanks, and one sample was an equipment blank. All samples were analyzed for VOCs by EPA Method 524.2 and total petroleum hydrocarbons (TPH) by EPA Method 418.1, except for the trip and equipment blanks, which were analyzed by EPA Method 524.2 only, and the sample from Monitoring Well LS-7, which was analyzed by EPA Method 418.1 only. In addition, analyses for major ions were conducted on three samples. Tables 1, 2, 3, 4, and 5 summarize the analytical results for tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (DCE), chlorobenzene, and TPH. Laboratory analytical results and a data validation report for this sampling round are included in Appendix B.

As shown on Tables 1 through 5, most February 1992 sample results are consistent with results from the previous three quarterly sampling rounds. Monitoring Wells 2 through 5 all showed PCE detections ranging from 0.52 to 1.1 ppb. These detections occur in the anomalous area south of the LRY and are the first PCE detections recorded at these wells in several sampling rounds. The cause of these detections is uncertain because of the very low levels of detection. Monitoring Wells 1 and 4 will be resampled during May 1992.

Monitoring Well 92-1 was installed during February 1992, approximately 100 feet downgradient from the Locomotive Shop manway soil vapor extraction (SVE) system. This well was sampled during the February 1992 semiannual sampling round to provide a baseline VOC concentration for evaluating the

Table 1: Tetrachloroethene Analytical Results for Ground-Water Samples Collected During the May 1991, August 1991, November 1991, and February 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: Tetrachloroethene Units: ug/L				
Monitoring Well	May Quarterly	1991 August Quarterly	November Quarterly	1992 February Quarterly
1	< 0.5 B	< 0.5 B	1.4 B	0.86 B
2	< 0.5 B	< 0.5 B	< 0.5 B	1.1 B
3	-	< 0.5 B	< 0.5 B	0.72 B
4	< 0.5 B	< 0.5 B	< 0.5 B	1.0 B
5	< 0.5 B	< 0.5 B	< 0.5 B	0.52 B
6	4.0 A	4.2 B	3.2 B	1.5 B
7	29.0 B	< 0.5 B	< 0.5 B	4.0 B
8	110.0 B	64.0 B	46.0 B	79.0 B
89-1	17.0 B	2.2 B	1.8 B	9.6 B
89-10	-	89.0 B	-	116.0 B
89-11	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-3	310.0 B	410.0 B	280.0 B	180.0 B
89-4	330.0 B	180.0 B	210.0 B	240.0 B
89-6	38.0 B	29.0 B	18.0 B	21.0 B
89-7	18.0 B	25.0 B	18.0 B	20.0 B
89-9	250.0 B	220.0 B	190.0 B	200.0 B
90-3	60.0 B	14.0 B	11.0 B	12.0 B
92-1	-	-	-	850.0 B
L-87-1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-2	< 0.5 B	< 0.5 B	0.83 B	2.2 B
L-87-3	170.0 B	94.0 B	130.0 B	140.0 B
L-87-4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-5	-	260.0 B	160.0 B	150.0 B
L-87-7	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-8	12.0 B	41.0 B	< 0.5 B	16.0 B
L-88-10	86.0 B	89.0 B	65.0 B	115.0 B
L-88-12	140.0 B	290.0 B	130.0 B	120.0 B
L-88-13	41.0 B	64.0 A	22.0 B	19.0 B
LG-10	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-10	-	< 0.5 B	-	< 0.5 B
LS-11	64.0 B	45.0 B	8.0 B	38.0 B
LS-6	< 0.5 B	< 0.5 B	< 0.5 B	1.4 B
LS-7	-	< 0.5 B	-	-
LS-8	110.0 B	59.0 A	40.0 B	74.0 B
POTW	77.0 B	38.0 B	21.0 B	33.0 B

Table 2: Trichloroethene Analytical Results for Ground-Water Samples Collected During the May 1991, August 1991, November 1991, and February 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana

Chemical Parameter: Trichloroethene					Units: ug/L
Monitoring Well	May Quarterly	1991 August Quarterly	November Quarterly	1992 February Quarterly	
1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
3	-	< 0.5 B	< 0.5 B	< 0.5 B	
4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
5	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
6	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
7	1.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
8	8.1 B	4.5 B	1.5 B	3.5 B	
89-1	0.6 B	< 0.5 B	< 0.5 B	< 0.5 B	
89-10	-	8.1 B	-	7.8 B	
89-11	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
89-2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
89-3	0.53 B	1.6 B	< 0.5 B	0.58 B	
89-4	3.2 B	4.3 B	6.0 B	5.9 B	
89-6	0.8 B	1.0 B	0.8 B	0.67 B	
89-7	2.6 B	1.4 B	1.8 B	1.9 B	
89-9	8.2 B	13.0 B	6.9 B	6.1 B	
90-3	7.3 B	9.6 B	4.1 B	3.0 B	
92-1	-	-	-	0.76 B	
L-87-1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
L-87-2	20.0 B	7.2 B	17.0 B	12.0 B	
L-87-3	13.0 B	11.0 B	10.0 B	12.0 B	
L-87-4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
L-87-5	-	12.0 B	8.0 B	5.8 B	
L-87-7	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
L-87-8	4.0 B	12.0 B	5.9 B	7.0 B	
L-88-10	19.0 B	21.0 B	18.0 B	16.0 B	
L-88-12	4.0 B	2.8 B	5.6 A	2.7 A	
L-88-13	6.3 B	14.0 B	7.7 B	5.0 B	
LG-10	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
LS-10	-	< 0.5 B	-	< 0.5 B	
LS-11	12.0 B	17.0 B	9.3 B	8.8 B	
LS-6	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B	
LS-7	-	< 0.5 B	-	-	
LS-8	14.0 B	7.4 B	3.7 B	13.0 B	
POTW	7.6 B	2.2 B	< 0.5 B	2.3 B	

Table 3: Cis-1,2-Dichloroethene Analytical Results for Ground-Water Samples Collected During the May 1991, August 1991, November 1991, and February 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: cis-1,2-Dichloroethene Units: ug/L

Monitoring Well	May Quarterly	1991 August Quarterly	November Quarterly	1992 February Quarterly
1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
3	-	< 1.0 B	< 1.0 B	< 1.0 B
4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
5	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
7	3.8 B	< 1.0 B	< 1.0 B	< 1.0 B
8	13.0 B	7.6 B	1.2 B	< 1.0 B
89-1	1.1 B	< 1.0 B	< 1.0 B	< 1.0 B
89-10	-	20.0 B	-	20.0 B
89-11	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-4	3.3 B	1.8 B	16.0 B	13.0 B
89-6	< 1.0 B	3.1 B	< 1.0 B	< 1.0 B
89-7	< 1.0 B	< 1.0 B	1.8 B	< 1.0 B
89-9	1.6 B	1.6 B	1.3 B	< 1.0 B
90-3	35.0 B	33.0 B	7.7 B	3.8 B
92-1	-	-	-	4.5 B
L-87-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-2	320.0 B	770.0 B	440.0 B	380.0 B
L-87-3	50.0 B	25.0 B	16.0 B	57.0 B
L-87-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-5	-	4.4 B	3.0 B	1.9 B
L-87-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-8	1.5 B	4.8 B	16.0 B	12.0 B
L-88-10	180.0 B	230.0 B	200.0 B	184.0 B
L-88-12	1.7 B	1.2 B	2.6 A	1.3 B
L-88-13	5.0 B	39.0 A	38.0 B	14.0 B
LG-10	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-10	-	< 1.0 B	-	< 1.0 B
LS-11	57.0 B	93.0 B	54.0 B	73.0 B
LS-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-7	-	< 1.0 B	-	-
LS-8	110.0 B	20.0 B	6.7 B	78.0 B
POTW	38.0 B	5.0 B	< 1.0 B	4.6 B

Table 4: Chlorobenzene Analytical Results for Ground-Water Samples Collected During the May 1991, August 1991, November 1991, and February 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: Chlorobenzene Units: ug/L				
Monitoring Well	May Quarterly	1991 August Quarterly	November Quarterly	1992 February Quarterly
1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
3	-	< 1.0 B	< 1.0 B	< 1.0 B
4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
5	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
8	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-10	-	< 1.0 B	-	< 1.0 B
89-11	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-9	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
90-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
92-1	-	-	-	< 1.0 B
L-87-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-2	53.0 B	65.0 B	70.0 B	63.0 B
L-87-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-5	-	< 1.0 B	< 1.0 B	< 1.0 B
L-87-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-8	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-88-10	3.4 B	17.0 B	5.2 B	8.7 B
L-88-12	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-88-13	< 1.0 B	4.0 B	1.2 B	< 1.0 B
LG-10	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-10	-	< 1.0 B	-	< 1.0 B
LS-11	< 1.0 B	130.0 B	250.0 B	44.0 B
LS-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-7	-	< 1.0 B	-	-
LS-8	23.0 B	< 1.0 B	2.6 B	28.0 B
POTW	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B

Table 5: Total Petroleum Hydrocarbon Analytical Results for Ground-Water Samples Collected During the May 1991, August 1991, November 1991, and February 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: Total petroleum hydrocarbons Units: mg/L

Monitoring Well	May Quarterly	1991 August Quarterly	November Quarterly	1992 February Quarterly
1	0.1 B	< 0.1 B	< 0.1 B	0.4 B
2	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
3	-	< 0.1 B	0.6 B	0.3 B
4	< 0.1 A	< 0.1 B	< 0.1 B	< 0.1 B
5	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
6	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
7	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
8	< 0.1 B	< 0.1 B	< 0.1 B	2.5 B
89-1	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-10	-	< 0.1 B	-	< 0.1 B
89-11	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-2	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-3	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-4	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-6	0.2 B	< 0.1 B	< 0.1 B	< 0.1 B
89-7	0.3 B	< 0.1 B	< 0.1 B	< 0.1 B
89-9	< 0.1 B	< 0.1 B	< 0.1 B	0.3 B
90-3	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
92-1	-	-	-	< 0.1 B
L-87-1	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
L-87-2	1.0 B	1.2 B	0.7 B	2.8 B
L-87-3	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
L-87-4	< 0.1 B	< 0.1 B	0.6 B	< 0.1 B
L-87-5	-	< 0.1 B	-	< 0.1 B
L-87-7	1.3 B	0.9 B	1.2 B	0.5 B
L-87-8	222.0 U	1.2 B	8.9 B	2.9 B
L-88-10	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
L-88-12	< 0.1 A	< 0.1 B	< 0.1 B	< 0.1 B
L-88-13	< 0.1 B	< 0.1 B	< 0.1 B	0.1 B
LG-10	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
LS-10	-	< 0.1 B	-	< 0.1 B
LS-11	< 0.1 B	0.5 B	0.6 B	< 0.1 B
LS-6	1.3 B	1.1 B	1.1 B	2.9 B
LS-7	-	< 0.1 B	-	< 0.1 B
LS-8	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
POTW	< 0.1 B	< 0.1 B	0.3 B	< 0.1 B

future impact of SVE operations at the Locomotive Shop manways. As shown on Tables 1 through 5, this sample contained 850 ppb of PCE, 0.76 ppb of TCE, and 4.5 ppb of cis-1,2-DCE. No chlorobenzene or TPH was detected. These results indicate that the Locomotive Shop manways were a significant VOC source to the alluvial aquifer. SVE operations at the Locomotive Shop manways through March 1992 have removed more than 60 pounds of PCE from this area.

2.3 March 1992 Ground Water Sampling Results

Five ground water samples were collected on March 31, 1992. One sample each was collected from Monitoring Wells LG-10, 89-2, 89-3, and the B-Street Municipal Well, and one was a trip blank. All samples were analyzed by EPA Method 601, except for the B-Street Municipal Well sample, which was analyzed by EPA Method 524.2. Laboratory analytical results and a data validation report for this sampling round are included in Appendix C.

No analytes were detected in the samples from Monitoring Wells 89-2 and LG-10 and the B-Street Municipal Well. The sample from Monitoring Well 89-3 was collected to evaluate the impact of the installation of the SVE at the Electric Shop. The Electric Shop SVE system was turned on during mid-March 1992. As shown by the results in Appendix C and on Table 1, PCE and TCE concentrations at Monitoring Well 89-3 were 255 and 0.59 ug/l respectively, similar to previous sample results.

2.4 Dense-Nonaqueous-Phase-Liquid Sampling

On March 4 and 5, 1992, a well was drilled adjacent to the Electric Shop degreaser pit to investigate the potential for a dense, nonaqueous-phase liquid

(DNAPL) to be present at the alluvium/bedrock contact beneath this location. During the installation of the SVE system in the Electric Shop, a well was drilled to the alluvium/bedrock contact. Once this contact was reached, a split-spoon soil sample was taken of the alluvium at the contact. At this point, the well was allowed to sit overnight. The following morning (April 5, 1992) a water sample was collected from the bottom of the well with a disposable bailer without purging any water from the well. The MDHES representative took a split sample. The casing was then withdrawn from the aquifer and the well was completed as an SVE well above the water table.

As shown in Appendix A, the water sample contained 44 ppb of PCE. The MDHES split sample showed good correlation, with a concentration of 47 ppb of PCE. The soil sample collected from the alluvium/bedrock contact did not contain any detectable VOCs. These data indicate that a DNAPL is not present at this site beneath the LRY.



APPENDIX A
JANUARY LABORATORY ANALYSES

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES

LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA

JANUARY 1992 MONTHLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the January 1992 monthly sampling round.

Table 1: Groundwater medium analytical suites for samples collected on 01/21/92

Sample Station		Date	Envirocon ID#	Lab ID #	EPA 601
89-2	(PS)	01/21/92	140101-997	92-4364	31
89-2	(FD)	01/21/92	140101-998	92-4365	31
LG-10	(PS)	01/21/92	140101-996	92-4363	31

Explanation

(PS) - Primary Sample
(FD) - Field Duplicate

2.0 EVALUATION OF BLANK ANALYSES

One trip blank was analyzed for this sampling round and no contaminants were found. One laboratory blank was analyzed for this sampling round and no contaminants were found. All the blank results are located at the end of this report.

3.0 EVALUATION OF DUPLICATE ANALYSES

One field duplicate was collected during this sampling round. A field duplicate was collected at well 89-2. No laboratory duplicates were analyzed for this sample round. No second laboratory splits were collected for this sample round. No relative percent difference calculations were greater than 30% for this sampling round.

4.0 EVALUATION OF HOLDING TIMES

No holding times were exceeded for this sample round.

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

Surrogate spike recoveries were within recovery limits and are located at the end of this report.

6.0 Validation Level Assignments

All analytical results are acceptable for quantitative data analysis for this sampling round.

Laboratory and Trip Blank Analytical Results

LAB BLANK 1 TRIP BLANK 1

01/21/92

Chemical Parameter

Chemical Compound Class: Volatile Organic Compounds

Bromodichloromethane, ug/L	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0
2-Chloroethyl vinyl ether, ug/L	< 1.0	< 1.0
Chloroform, ug/L	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-4362 -65
DATE: 01/31/92 crp

RECEIVED
FEB 03 1992
Envirocon, Inc.
Livingston, MT

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-4362	115	84	94
92-4363	110	84	108
92-4364	97	86	103
92-4365	106	88	100
Method Blank 01/29/92	90	98	97

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m2/3/62

January 31, 1992

RECEIVED

FEB 03 1992

ENVIROCON, Inc.
Livingston, Mt.

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On January 22, 1992 these samples, represented by our laboratory numbers 92-4362 to 92-4365, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:

LABORATORY REPORT**TO:** Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047**LAB NO:** 92-4363
DATE: 01/31/92 crp**WATER ANALYSIS**BN/Livingston
140101-996
Sampled 01/21/92 @ 14:10
Submitted 01/22/92
Analyzed 01/29/92**RECEIVED**

FEB 03 1992

ENVIROCON, Inc.
Livingston, MT**CONSTITUENT****µg/l****Purgeable Halocarbons (EPA Method 8260)**

Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO: 92-4364
DATE: 01/31/92 crp

WATER ANALYSIS

BN/Livingston
140101-997
Sampled 01/21/92 @ 15:00
Submitted 01/22/92
Analyzed 01/29/92

RECEIVED
FEB 03 1992
ENVIROCON, Inc.
Livingston, MT

CONSTITUENT

µg/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

m 2/3/92
db 2/4/92

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO: 92-4365
DATE: 01/31/92 crp

WATER ANALYSIS

BN/Livingston
140101-998
Sampled 01/21/92 @ 15:10
Submitted 01/22/92
Analyzed 01/29/92

89-2
H. Long

RECEIVED
FEB 03 1992
ENVIROCON, Inc.
Livingston, Mt.

CONSTITUENT

µg/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.



APPENDIX B
FEBRUARY LABORATORY ANALYSES

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES

LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA

FEBRUARY 1992 QUARTERLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the February 1992 quarterly sampling round.

Table 1: Groundwater medium analytical suites for samples collected from 02/25/92 to 03/06/92

					EPA Analytical Methods					
Sample Station		Date	Envirocon ID#	Lab ID #	200.7	300.0	310.1	353.2	418.1	524.2
1	(PS)	02/27/92	140101-1021	92-8616	0	0	0	0	1	58
2	(PS)	02/26/92	140101-1013	92-6503	0	0	0	0	1	58
3	(PS)	02/28/92	140101-1034	92-8648	0	0	0	0	1	58
4	(PS)	02/26/92	140101-1014	92-6504	0	0	0	0	1	58
5	(PS)	02/26/92	140101-1015	92-6505	0	0	0	0	1	58
6	(PS)	02/27/92	140101-1028	92-8623	0	0	0	0	1	58
7	(PS)	02/27/92	140101-1023	92-8618	0	0	0	0	1	58
7	(FD)	02/27/92	140101-1024	92-8619	0	0	0	0	1	58
8	(PS)	02/28/92	140101-1039	92-8652	0	0	0	0	1	58
89-1	(PS)	02/28/92	140101-1033	92-8647	0	0	0	0	1	58
89-10	(PS)	02/28/92	140101-1038	92-8651	0	0	0	0	1	58
89-11	(PS)	02/27/92	140101-1026	92-8621	0	0	0	0	1	58
89-2	(PS)	02/25/92	140101-1007	92-6398	0	0	0	0	1	58
89-3	(PS)	02/26/92	140101-1010	92-6500	0	0	0	0	1	58
89-3	(LD)	02/26/92	140101-1010	92-6500	0	0	0	0	0	58
89-4	(PS)	02/25/92	140101-1006	92-6397	0	0	0	0	1	58
89-6	(PS)	02/28/92	140101-1035	92-8649	0	0	0	0	1	58

Explanation

- (PS) - Primary Sample
- (FD) - Field Duplicate
- (LD) - Laboratory Duplicate

Table 1 (cont.): Groundwater medium analytical suites for samples collected from 02/25/92 to 03/06/92

Sample Station		Date	Envirocon ID#	Lab ID #	EPA Analytical Methods					
					200.7	300.0	310.1	353.2	418.1	524.2
89-6	(FD)	02/28/92	140101-1036	92-8650	0	0	0	0	1	58
89-6	(LD)	02/28/92	140101-1036	92-8650	0	0	0	0	0	58
89-7	(PS)	03/03/92	140101-1042	92-8814	0	0	0	0	1	58
89-9	(PS)	02/26/92	140101-1009	92-6499	0	0	0	0	1	58
90-3	(PS)	02/27/92	140101-1031	92-8626	8	2	3	1	1	58
92-1	(PS)	03/03/92	140101-1043	92-8815	0	0	0	0	1	58
92-1	(FD)	03/03/92	140101-1044	92-8816	0	0	0	0	1	58
L-87-1	(PS)	02/25/92	140101-1000	92-6392	0	0	0	0	1	58
L-87-2	(PS)	02/26/92	140101-1011	92-6501	0	0	0	0	1	58
L-87-3	(PS)	02/26/92	140101-1012	92-6502	0	0	0	0	1	58
L-87-4	(PS)	02/26/92	140101-1016	92-6506	0	0	0	0	1	58
L-87-5	(PS)	02/25/92	140101-1003	92-6394	0	0	0	0	1	58
L-87-7	(PS)	02/26/92	140101-1017	92-6507	0	0	0	0	1	58
L-87-8	(PS)	02/26/92	140101-1018	92-6508	0	0	0	0	1	58
L-88-10	(PS)	02/27/92	140101-1025	92-8620	0	0	0	0	1	58
L-88-10	(LD)	02/27/92	140101-1025	92-8620	0	0	0	0	0	58
L-88-12	(PS)	02/25/92	140101-1004	92-6395	0	0	0	0	1	58
L-88-12	(FD)	02/25/92	140101-1005	92-6396	0	0	0	0	1	58
L-88-13	(PS)	02/26/92	140101-1019	92-6509	0	0	0	0	1	58
LG-10	(PS)	02/27/92	140101-1027	92-8622	0	0	0	0	1	58
LS-10	(PS)	03/03/92	140101-1041	92-8813	0	0	0	0	1	58
LS-11	(PS)	02/27/92	140101-1030	92-8625	8	2	3	1	1	58
LS-6	(PS)	02/25/92	140101-1001	92-6393	0	0	0	0	1	58
LS-7	(PS)	02/25/92	140101-1002	92-6391	0	0	0	0	1	0
LS-8	(PS)	02/27/92	140101-1029	92-8624	8	2	3	1	1	58
POTW	(PS)	02/27/92	140101-1022	92-8617	0	0	0	0	1	58

Explanation

(PS) - Primary Sample

(FD) - Field Duplicate

(LD) - Laboratory Duplicate

2.0 EVALUATION OF BLANK ANALYSES

Five trip blanks were analyzed for this sampling round. Chloroform was found in two trip blanks at a concentration of 1.0 ug/L. Toluene was found in three trip blanks with a concentration range of 1.1 to 1.3 ug/L. Total xylenes were found in one trip blank at a concentration of 1.8 ug/L. One equipment blank was analyzed for this sampling round. Toluene was found in the equipment blank at a concentration of 1.1 ug/L. Five laboratory blanks were analyzed for this sampling round and no contaminants were found. Table 2 lists the sample results for the February, 1992 quarterly sampling round which were affected by blank contamination. All the blank results are located at the end of this report.

Table 2: List of sample results which are affected by contamination found in blank samples.

Sample Station	Chemical Name	Value	Blank Value	Units	Blank Type
L-88-10 (PS)	Chloroform	1.1	1.0	ug/L	Trip
L-88-10 (LD)	Chloroform	1.1	1.0	ug/L	Trip

Explanation

(PS) - Primary Sample

(FD) - Field Duplicate

(LD) - Laboratory Duplicate

3.0 EVALUATION OF DUPLICATE ANALYSES

Four field duplicates were collected during this sampling round. Field duplicates were collected at wells L-88-12, 7, 89-6 and 92-1. Three laboratory duplicates were analyzed for this sampling round. Laboratory duplicates were analyzed for the primary sample of well 89-3, the primary sample of well L-88-10 and the field duplicate of well 89-6. No second laboratory splits were collected for this sample round. Table 3 lists the sample results for the February, 1992 quarterly sampling round which failed the duplicate comparison criteria.

Table 3: List of sample results which exceeded the relative percent difference value of 30%.

Sample Station	Chemical Name	Value	Dupl. Value	RPD %	Dupl. Type
L-88-12	Trichloroethene	2.7	4.4	47.9	Field

4.0 EVALUATION OF HOLDING TIMES

No holding times were exceeded for the February 1992 quarterly sampling round.

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

The matrix spike recoveries were within recovery limits. Surrogate spike recoveries were within recovery limits. The U.S. Environmental Protection Agency quality control results were within the control limits. Matrix spike, surrogate spike and U.S. EPA quality control results are located at the end of this report.

6.0 Validation Level Assignments

Analytical results are acceptable for quantitative data analysis for this sampling round with the exception of the sample results listed in Table 5 (qualitative results).

Table 5: List of sample results which have been validated as qualitative.

Sample Station	Sample Type	Parameter	Reason
L-88-12	Primary Sample	Trichloroethene	Duplicate Comparison
L-88-12	Field Duplicate	Trichloroethene	Duplicate Comparison

Equipment and Laboratory Blank Analytical Results

Chemical Parameter	EQUIP. BLANK 02/28/92	LAB BLANK 1	LAB BLANK 2
Chemical Compound Class: Volatile Organic Compounds			
Benzene, ug/L	< 0.5	< 0.5	< 0.5
Bromobenzene, ug/L	< 1.0	< 1.0	< 1.0
Bromochloromethane, ug/L	< 1.0	< 1.0	< 1.0
Bromodichloromethane, ug/L	< 1.0	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0	< 1.0
n-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0
sec-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0
tert-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0	< 1.0
Chloroform, ug/L	< 1.0	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0
4-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane, ug/L	< 1.0	< 1.0	< 1.0
Dibromomethane, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0
Ethylbenzene, ug/L	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene, ug/L	< 1.0	< 1.0	< 1.0
Isopropylbenzene, ug/L	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene, ug/L	< 1.0	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0	< 1.0
Naphthalene, ug/L	< 1.0	< 1.0	< 1.0
n-Propylbenzene, ug/L	< 1.0	< 1.0	< 1.0
Styrene, ug/L	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5	< 0.5
Toluene, ug/L	<u>1.1</u>	< 1.0	< 1.0

Equipment and Laboratory Blank Analytical Results

Chemical Parameter	EQUIP. BLANK 02/28/92	LAB BLANK 1	LAB BLANK 2
Chemical Compound Class: Volatile Organic Compounds			
1,2,3-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane, ug/L	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5	< 0.5
Xylenes, total, ug/L	< 1.0	< 1.0	< 1.0
Chemical Compound Class: Miscellaneous Chemicals			
Total petroleum hydrocarbons, mg/L	-	< 0.1	< 0.1

Laboratory and Trip Blank Analytical Results

Chemical Parameter	LAB BLANK 3	LAB BLANK 4	LAB BLANK 5	TRIP BLANK 1 02/25/92
Chemical Compound Class: Volatile Organic Compounds				
Benzene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform, ug/L	< 1.0	< 1.0	< 1.0	<u>1.0</u>
Chloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Styrene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene, ug/L	< 1.0	< 1.0	< 1.0	<u>1.1</u>

Laboratory and Trip Blank Analytical Results

Chemical Parameter	LAB BLANK 3	LAB BLANK 4	LAB BLANK 5	TRIP BLANK 1 02/25/92
--------------------	-------------	-------------	-------------	--------------------------

Chemical Compound Class: Volatile Organic Compounds

1,2,3-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes, total, ug/L	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Compound Class: Metals

Aluminum, total, mg/L	< 0.1	-	-	-
Calcium, total, mg/L	< 1.0	-	-	-
Iron III, total, mg/L	< 0.03	-	-	-
Magnesium, total, mg/L	< 1.0	-	-	-
Manganese, total, mg/L	< 0.02	-	-	-
Potassium, total, mg/L	< 1.0	-	-	-
Sodium, total, mg/L	< 1.0	-	-	-

Chemical Compound Class: Nonmetal Inorganics

Alkalinity, total (as CaCO3), mg/L	< 1.0	-	-	-
Bicarbonate (as CaCO3), mg/L	< 1.0	-	-	-
Carbonate (as CaCO3), mg/L	< 1.0	-	-	-
Chloride, mg/L	< 1.0	-	-	-
Nitrate + Nitrite (as N), mg/L	< 0.05	-	-	-
Silica (as SiO2), mg/L	< 0.1	-	-	-
Sulfate, mg/L	< 1.0	-	-	-

Chemical Compound Class: Miscellaneous Chemicals

Total petroleum hydrocarbons, mg/L	< 0.1	< 0.1	< 0.1	-
------------------------------------	-------	-------	-------	---

Trip Blank Analytical Results

Chemical Parameter	TRIP BLANK 2 02/26/92	TRIP BLANK 3 02/27/92	TRIP BLANK 4 02/28/92	TRIP BLANK 5 03/03/92
Chemical Compound Class: Volatile Organic Compounds				
Benzene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform, ug/L	< 1.0	<u>1.0</u>	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Styrene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene, ug/L	< 1.0	<u>1.2</u>	<u>1.3</u>	< 1.0

Trip Blank Analytical Results

	TRIP BLANK 2	TRIP BLANK 3	TRIP BLANK 4	TRIP BLANK 5
	02/26/92	02/27/92	02/28/92	03/03/92
Chemical Parameter	Primary	Primary	Primary	Primary

Chemical Compound Class: Volatile Organic Compounds

1,2,3-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene, ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride, ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes, total, ug/L	< 1.0	< 1.0	< 1.0	<u>1.8</u>

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6501
DATE: 03/23/92 crp**RECEIVED**

MAR 24 1992

QUALITY ASSURANCE SPIKE ANALYSISENVIROCON, Inc.
Livingston, MT

Lab no. 92-6501 was analyzed 03/10/92 and spiked with the following constituents with these results for Envirocon samples:

<u>Parameter</u>	<u>Spike Amount, µg/l</u>	<u>P (%)</u>	<u>Range for P (%)</u>
Chlorobenzene	125	128	60-140
1,2-Dichlorobenzene	125	117	60-140
cis-1,2-Dichloroethylene	125	112	60-140
trans-1,2-Dichloroethylene	125	134	60-140
1,2-Dichloropropane	125	135	60-140
Ethylbenzene	125	92	60-140
Styrene	125	105	60-140
Tetrachloroethylene	125	123	60-140
Toluene	125	120	60-140
o-Xylene	125	103	60-140
p-Xylene	125	94	60-140

P = Percent Recovery Measured

NOTE: Spike was performed on a 25x dilution due to a high level of cis-1,2-Dichloroethene in the sample.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8621 spi
DATE: 03/24/92 crp

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, Mt.

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 92-8621 was analyzed 03/16/92 and spiked with the following constituents with these results:

<u>Constituent</u>	<u>Spike Amount, μg/l</u>	<u>P (%)</u>	<u>Range for P (%)</u>
Chlorobenzene	5.0	116	60-140
1,2-Dichlorobenzene	5.0	102	60-140
cis-1,2-Dichloroethylene	5.0	124	60-140
trans-1,2-Dichloroethylene	5.0	126	60-140
1,2-Dichloropropane	5.0	113	60-140
Ethylbenzene	5.0	108	60-140
Styrene	5.0	105	60-140
Tetrachloroethylene	5.0	120	60-140
Toluene	5.0	112	60-140
o-Xylene	5.0	108	60-140
p-Xylene	5.0	116	60-140

P = Percent recovery measured.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT****TO:** Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047**LAB NO.:** 92-8651 spi
DATE: 03/26/92 rh**RECEIVED**

MAR 30 1992

ENVIROCON, Inc.
Livingston, MT.**QUALITY ASSURANCE - SPIKED ANALYSIS**

Lab No. 92-8651 was analyzed on 03/24/92 and spiked with the following constituents with these results for Envirocon samples.

<u>Parameter</u>	<u>Spike Amount*, µg/l.</u>	<u>P (%)</u>	<u>Range for P (%)</u>
Chlorobenzene	50	122	60-140
1,2-Dichlorobenzene	50	117	60-140
cis-1,2-Dichloroethylene	50	120	60-140
trans-1,2-Dichloroethylene	50	114	60-140
1,2-Dichloropropane	50	121	60-140
Ethylbenzene	50	114	60-140
Styrene	50	112	60-140
Tetrachloroethylene	50	78	60-140
Toluene	50	114	60-140
o-Xylene	50	114	60-140
p-Xylene	50	94	60-140

P = Percent Recovery Measured

* Sample was diluted 10x before spiking.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6390,92-98
DATE: 03/16/92 rh

RECEIVED

MAR 17 1992

ENVIROCON, Inc.
LIVINGSTON, MT.WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-6390	108	87	100
92-6390 dup	109	96	100
92-6392	119	86	109
92-6393	97	94	92
92-6394	111	90	113
92-6395	108	90	111
92-6396	113	100	95
92-6397	82	100	104
92-6398	85	102	106
Method Blank	106	96	92

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery

80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

* Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT**TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6498 -6509
DATE: 03/23/92 crp**RECEIVED**

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-6498	92	93	106
92-6499	89	101	109
92-6500	91	102	86
92-6500 dup	101	99	96
92-6501	102	103	80
92-6502	91	106	117
92-6503	88	100	119
92-6504	94	98	108
92-6505	106	100	110
92-6506	101	102	103
92-6507	98	102	107
92-6508	101	103	102
92-6509	103	102	105
Method Blank 03/03/92	104	113	88

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M 3/30/92

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8615 -26
DATE: 03/24/92 crpWATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, MT.

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-8615	104	106	103
92-8616	114	98	113
92-8617	105	94	102
92-8618	118	98	97
92-8619	118	99	95
92-8620	110	92	118
92-8620 dup	99	98	117
92-8621	108	95	120
92-8622	99	91	106
92-8623	100	105	110
92-8624	99	104	113
92-8625	96	103	103
92-8626	99	104	99
Method Blank 03/10/92	90	104	93

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4QC LIMITS, % Recovery80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT****TO:** Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047**LAB NO.:** 92-8645-52**DATE:** 03/26/92 rh**RECEIVED**

MAR 30 1992

ENVIROCON, Inc.
Livingston, MT.WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-8645	105	93	90
92-8646	108	92	97
92-8647	112	90	115
92-8648	101	92	107
92-8649	118	92	107
92-8650	104	101	100
92-8650 dup	100	93	112
92-8651	118	97	95
92-8652	103	98	119
Method Blank 03/12/92	113	100	80

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4QC LIMITS, % Recovery80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

* Values outside of contract required QC limits.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT**TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8813 -17
DATE: 03/25/92 crp**RECEIVED**
MAR 26 1992
ENVIROCON, Inc.
Livingston, Mt.WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-8813	105	98	108
92-8814	110	95	111
92-8815	108	92	109
92-8816	108	96	111
92-8817	101	104	91
Method Blank 03/16/92	105	96	90

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6390,92-98
DATE: 03/16/92 rh

RECEIVED

MAR 17 1992

ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your Lab
No.s 92-6390, 6392-98 with the following results:

<u>Parameter</u>	<u>True Value,</u> <u>µg/l</u>	<u>P(%)</u>	<u>Range</u> <u>for P(%)</u>
1,1-Dichloroethene	5.0	100	60-140
trans-1,2-Dichloroethene	5.0	102	60-140
1,2-Dichloroethane	5.0	84	60-140
Carbon Tetrachloride	5.0	100	60-140
1,2-Dichloropropane	5.0	126	60-140
1,1,2-Trichloroethane	5.0	88	60-140
Tetrachloroethene	5.0	106	60-140
Chlorobenzene	5.0	100	60-140
Ethylbenzene	5.0	108	60-140
1,3-Dichlorobenzene	5.0	98	60-140
1,4-Dichlorobenzene	5.0	104	60-140

P = Percent recovery measured.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

W 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.:
DATE: Evaluation Sample
03/23/92 crp

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 03/03/92
with the following results:

<u>Parameter</u>	<u>True Value, $\mu\text{g/l}$</u>	<u>P (%)</u>	<u>Range for P (%)</u>
1,1-Dichloroethene	5.0	100	60-140
trans-1,2-Dichloroethene	5.0	102	60-140
1,2-Dichloroethane	5.0	84	60-140
Carbon Tetrachloride	5.0	100	60-140
1,2-Dichloropropane	5.0	126	60-140
1,1,2-Trichloroethane	5.0	88	60-140
Tetrachloroethene	5.0	106	60-140
Chlorobenzene	5.0	100	60-140
Ethylbenzene	5.0	108	60-140
1,3-Dichlorobenzene	5.0	98	60-140
1,4-Dichlorobenzene	5.0	104	60-140

P = Percent recovery measured.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8615 -26
DATE: 03/24/92 crp

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE**Volatile Organic Contaminants**

This EPA Quality Control sample was analyzed 03/09/92 with your lab
nos. 92-8615 to 92-8626 with the following results:

<u>Parameter</u>	<u>True Value, µg/l</u>	<u>P (%)</u>	<u>Range for P (%)</u>
1,1-Dichloroethene	5.0	104	60-140
trans-1,2-Dichloroethene	5.0	108	60-140
1,2-Dichloroethane	5.0	103	60-140
Carbon Tetrachloride	5.0	120	60-140
1,2-Dichloropropane	5.0	128	60-140
1,1,2-Trichloroethane	5.0	138	60-140
Tetrachloroethene	5.0	109	60-140
Chlorobenzene	5.0	120	60-140
Ethylbenzene	5.0	84	60-140
1,3-Dichlorobenzene	5.0	93	60-140
1,4-Dichlorobenzene	5.0	93	60-140

P = Percent recovery measured.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8645-52
DATE: 03/26/92 rh

RECEIVED
MAR 30 1992
ENVIROCON, Inc.
Livingston, MT

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

These EPA Quality Control samples were analyzed with your Lab
No.s 92-8645 to 92-8652 with the following results:

<u>Parameter</u>	<u>True Value,</u> <u>µg/l</u>	<u>P(%)</u>	<u>Range</u> <u>for P(%)</u>
1,1-Dichloroethene	5.0	104	60-140
trans-1,2-Dichloroethene	5.0	108	60-140
1,2-Dichloroethane	5.0	92	60-140
Carbon Tetrachloride	5.0	106	60-140
1,2-Dichloropropane	5.0	102	60-140
1,1,2-Trichloroethane	5.0	104	60-140
Tetrachloroethene	5.0	116	60-140
Chlorobenzene	5.0	110	60-140
Ethylbenzene	5.0	113	60-140
1,3-Dichlorobenzene	5.0	110	60-140
1,4-Dichlorobenzene	5.0	106	60-140

P = Percent recovery measured.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8813 -17
DATE: 03/25/92 crp**RECEIVED**

MAR 26 1992

ENVIROCON, Inc.
Livingston, MTEPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 03/16/92 with your lab
nos. 92-8813 to 92-8817 with the following results:

<u>Parameter</u>	<u>True Value, µg/l</u>	<u>P (%)</u>	<u>Range for P (%)</u>
1,1-Dichloroethene	5.0	104	60-140
trans-1,2-Dichloroethene	5.0	108	60-140
1,2-Dichloroethane	5.0	92	60-140
Carbon Tetrachloride	5.0	106	60-140
1,2-Dichloropropane	5.0	102	60-140
1,1,2-Trichloroethane	5.0	104	60-140
Tetrachloroethene	5.0	116	60-140
Chlorobenzene	5.0	110	60-140
Ethylbenzene	5.0	113	60-140
1,3-Dichlorobenzene	5.0	110	60-140
1,4-Dichlorobenzene	5.0	106	60-140

P = Percent recovery measured.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/19/92

RECEIVED

MAR 17 1992

**ENVIROCON, Inc.
Livingston, MT.**

March 16, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On February 27, 1992, these samples, represented by our laboratory numbers 92-6390 to 92-6398 were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: _____

for Standen

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6392
DATE: 03/16/92 rhWATER ANALYSISLivingston/BN
140101-1000
Sampled 02/25/92 @ 1210
Submitted 02/27/92
Analyzed 03/02/92

L-87-1

RECEIVED
MAR 17 1992
ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 3/19/92



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6393
DATE: 03/16/92 rh

RECEIVED
MAR 17 1992
ENVIROCON, Inc.
Livingston, MT.

WATER ANALYSIS

Livingston/BN
140101-1001 LS-6
Sampled 02/25/92 @ 1310
Submitted 02/27/92
Analyzed 03/06/92

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	3.2	Isopropylbenzene	1.7
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	1.4
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 3/19/92



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6394
DATE: 03/16/92 rh

WATER ANALYSIS

Livingston/BN
140101-1003
Sampled 02/25/92 @ 1440
Submitted 02/27/92
Analyzed 03/02/92

L-87-5

RECEIVED
MAR 17 1992
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	150 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	5.8
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	1.9	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6395
DATE: 03/16/92 rhWATER ANALYSISLivingston/BN
140101-1004
Sampled 02/25/92 @ 1615
Submitted 02/27/92
Analyzed 03/02/92

L-88-12

RECEIVED
MAR 17 1992
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	120 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	2.7
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	1.3	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6396
DATE: 03/16/92 rhWATER ANALYSISLivingston/BN
140101-1005
Sampled 02/25/92 @ 1620
Submitted 02/27/92
Analyzed 03/02/92RECEIVED
MAR 17 1992
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	130 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	4.4
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	1.3	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6397
DATE: 03/16/92 rhWATER ANALYSISLivingston/BN 89-4
140101-1006
Sampled 02/25/92 @ 1715
Submitted 02/27/92
Analyzed 03/02/92RECEIVED
MAR 17 1992
ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	240 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	5.9
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	13	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 25x dilution of the sample.

m 3/9/92



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6398
DATE: 03/16/92 rh
REVISED: 03/17/92 rh

WATER ANALYSIS

Livingston/BN 89-2
140101-1007
Sampled 02/25/92 @ 1800
Submitted 02/27/92
Analyzed 03/02/92

RECEIVED

MAR 18 1992

ENVIROCON, INC.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6069 • FAX (406) 252-6069 • 1-800-735-4189

M 3/19/92
db

RECEIVED
MAR 17 1992

ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6391-98
DATE: 03/16/92 rh

WATER ANALYSIS

Livingston/BN
Sampled 02/25/92
Submitted 02/27/92
Analyzed 02/27/92

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l (ppm)</u>
92-6391	140101-1002, Sampled @ 1405 LS-7	<0.1
92-6392	140101-1000, Sampled @ 1210 L-87-1	<0.1
92-6393	140101-1001, Sampled @ 1310 LS-6	2.9
92-6394	140101-1003, Sampled @ 1440 L-87-5	<0.1
92-6395	140101-1004, Sampled @ 1615 L-88-12	<0.1
92-6396	140101-1005, Sampled @ 1620 Wing of L-88-12	<0.1
92-6397	140101-1006, Sampled @ 1715 89-4	<0.1
92-6398	140101-1007, Sampled @ 1800 89-2	<0.1
	Water Blank	<0.1

Analysis done by EPA Method 418.1.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

RECEIVED

MAR 24 1992

March 23, 1992

ENVIROCON, Inc.
Livingston, Mt.

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On February 28, 1992, these samples, represented by our laboratory numbers 92-6498 to 92-6509, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: William J. Ben

LABORATORY REPORT

m 3/30/92

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6499
DATE: 03/23/92 crp**RECEIVED**

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.WATER ANALYSISLivingston/BN 89-9
140101-1009
Sampled 02/26/92 @ 1015
Submitted 02/28/92
Analyzed 03/03/92

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	200 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	6.1
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6069 • FAX (406) 252-6069 • 1-800-735-2489

LABORATORY REPORT

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, Mt.

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6500
DATE: 03/23/92 crp
REVISED: 03/24/92 crp

WATER ANALYSIS

Livingston/BN 89-3
140101-1010
Sampled 02/26/92 @ 1115
Submitted 02/28/92
Analyzed 03/05/92

RECEIVED

MAR 26 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>ug/l</u>	<u>Volatile Organic Constituent</u>	<u>ug/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
1-Chlorotoluene	< 1.0	Tetrachloroethene	180 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	0.58
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

Value derived from a 25x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6500 dup
DATE: 03/23/92 crp
REVISED: 03/26/92 crp

QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN
140101-1010
Sampled 02/26/92 @ 1115
Submitted 02/28/92
Analyzed 03/06/92

RECEIVED**MAR 30 1992****ENVIROCON, Inc.
Livingston, MT.****Volatile Organic Constituent****ug/l**

Benzene	< 0.50
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
Dichlorodifluoromethane	< 1.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0

Volatile Organic Constituent**ug/l**

1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene chloride	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	190 *
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	0.59
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl chloride	< 0.50
Xylenes	< 1.0

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT**

m 3/30/92

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6501
DATE: 03/23/92 crp**RECEIVED**
MAR 24 1992
ENVIROCON, Inc.
Livingston, MTWATER ANALYSISLivingston/BN
140101-1011
Sampled 02/26/92 @ 1215
Submitted 02/28/92
Analyzed 03/05/92

L-87-2

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	1.3
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	63 *	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	35 *	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	2.2
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	3.7	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	12
1,4-Dichlorobenzene	3.0	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	380 *	Xylenes	5.7
trans-1,2-Dichloroethene	6.3		✓
1,2-Dichloropropane	< 1.0		

* Value derived from a 25x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 3/30/92



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6502
DATE: 03/23/92 crp

WATER ANALYSIS

Livingston/BN
140101-1012
Sampled 02/26/92 @ 1250
Submitted 02/28/92
Analyzed 03/03/92

L-87-3

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	140 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	12
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	57 *	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 3/30/92



ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6503
DATE: 03/23/92 crp

RECEIVED
MAR 24 1992
ENVIROCON, Inc.
Livingston, MT

WATER ANALYSIS

Livingston/BN #2
140101-1013
Sampled 02/26/92 @ 1353
Submitted 02/28/92
Analyzed 03/03/92

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	1.1
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

m 3/30/92

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6504
DATE: 03/23/92 crp

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, MT

WATER ANALYSIS

Livingston/BN #4
140101-1014
Sampled 02/26/92 @ 1435
Submitted 02/28/92
Analyzed 03/03/92

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	1.0
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

m 3/30/92

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6505
DATE: 03/23/92 crp

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN #5
140101-1015
Sampled 02/26/92 @ 1535
Submitted 02/28/92
Analyzed 03/03/92

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	0.52
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6506
DATE: 03/23/92 crp

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.WATER ANALYSIS

Livingston/BN
140101-1016
Sampled 02/26/92 @ 1635
Submitted 02/28/92
Analyzed 03/03/92

L-87-4

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6507
DATE: 03/23/92 crp

WATER ANALYSIS

Livingston/BN
140101-1017
Sampled 02/26/92 @ 1716
Submitted 02/28/92
Analyzed 03/04/92

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, MT.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	1.8	Isopropylbenzene	2.4
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	4.2
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6508
DATE: 03/23/92 crp

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.WATER ANALYSIS

Livingston/BN
140101-1018
Sampled 02/26/92 @ 1755
Submitted 02/28/92
Analyzed 03/04/92

L-87-8

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	2.3	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	16
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	7.0
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	12	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

m 3/30/92

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-6509
DATE: 03/23/92 crp

RECEIVED

MAR 24 1992

ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1019
Sampled 02/26/92 @ 1830
Submitted 02/28/92
Analyzed 03/10/92

L-88-13

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	3.1	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	19 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	5.0
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	14	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 5x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-2255
FAX (406) 252-6069 • 1-800-735-1111m 3/30/92
db 4/5/92**RECEIVED**
MAR 25 1992
Envirocon, Inc.
Livingston, MT**LABORATORY REPORT**TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-6499 -509
DATE: 03/02/92 rh
REVISED: 03/24/92 crp**WATER ANALYSIS**Livingston/BN
Sampled 02/26/92
Submitted 02/28/92
Analyzed 03/02/92

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l (ppm)</u>
92-6499	140101-1009, Sampled @ 1015 87-9	0.3
92-6500	140101-1010, Sampled @ 1115 89-3	<0.1
92-6501	140101-1011, Sampled @ 1215 L-87-2	2.8
92-6502	140101-1012, Sampled @ 1250 L-87-5	<0.1
92-6503	140101-1013, Sampled @ 1353 # 2	<0.1
92-6504	140101-1014, Sampled @ 1435 # 4	<0.1
92-6505	140101-1015, Sampled @ 1535 # 5	<0.1
92-6506	140101-1016, Sampled @ 1635 L-87-4	<0.1
92-6507	140101-1017, Sampled @ 1716 L-87-7	0.5
92-6508	140101-1018, Sampled @ 1755 L-87-8	2.9
92-6509	140101-1019, Sampled @ 1830 L-88-13	0.1
Blank	Method Blank	<0.1 ✓

NOTE: Analysis done by EPA method 418.1.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, MT.

March 24, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On March 2, 1992, these samples, represented by our laboratory numbers 92-8615 to 92-8626, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:

William Brown

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8616
DATE: 03/24/92 crp

WATER ANALYSIS

Livingston/BN, Project #140101
140101-1021

Sampled 02/27/92 @ 0945

Submitted 03/02/92

Analyzed 03/10/92

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	0.86
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

M3/24/92

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8617
DATE: 03/24/92 crp

WATER ANALYSIS

Livingston/BN, Project #140101
140101-1022
Sampled 02/27/92 @ 1020
Submitted 03/02/92
Analyzed 03/10/92

POT W

RECEIVED
MAR 25 1992
Envirocon, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	33 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	2.3
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	4.6	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

* Value derived from a 5x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8618
DATE: 03/24/92 crpWATER ANALYSISLivingston/BN, Project #140101
140101-1023

Sampled 02/27/92 @ 1050

Submitted 03/02/92

Analyzed 03/10/92

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	4.0
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8619
DATE: 03/24/92 crpWATER ANALYSIS

Livingston/BN, Project #140101

140101-1024

Sampled 02/27/92 @ 1055

Submitted 03/02/92

Analyzed 03/10/92

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	4.1
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8620
DATE: 03/24/92 crp

WATER ANALYSIS

Livingston/BN, Project #140101
140101-1025
Sampled 02/27/92 @ 1238
Submitted 03/02/92
Analyzed 03/09/92

L-88-10

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, MT.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	8.7	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	1.1	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	115 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	16
1,4-Dichlorobenzene	1.3	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	184 *	Xylenes	< 1.0
trans-1,2-Dichloroethene	1.3		
1,2-Dichloropropane	< 1.0		

* Value derived from a 25x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8620 dup
DATE: 03/24/92 crpQUALITY ASSURANCE - DUPLICATE ANALYSISLivingston/BN, Project #140101
140101-1025

Sampled 02/27/92 @ 1238

Submitted 03/02/92

Analyzed 03/10/92

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, MTVolatile Organic Constituentµg/lVolatile Organic Constituentµg/l

Benzene	< 0.50
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	8.7
Chloroethane	< 1.0
Chloroform	1.1
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	1.4
Dichlorodifluoromethane	< 1.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	175 *
trans-1,2-Dichloroethene	1.3
1,2-Dichloropropane	< 1.0

1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene chloride	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	112 *
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	16
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl chloride	< 0.50
Xylenes	< 1.0

* Value derived from a 25x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8621
DATE: 03/24/92 crp

WATER ANALYSIS

Livingston/BN, Project #140101
140101-1026

Sampled 02/27/92 @ 1400

Submitted 03/02/92

Analyzed 03/09/92

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, Mt.Volatile Organic Constituentµg/l

Benzene < 0.50
Bromobenzene < 1.0
Bromochloromethane < 1.0
Bromodichloromethane < 1.0
Bromoform < 1.0
Bromomethane < 1.0
n-Butylbenzene < 1.0
sec-Butylbenzene < 1.0
tert-Butylbenzene < 1.0
Carbon tetrachloride < 0.50
Chlorobenzene < 1.0
Chloroethane < 1.0
Chloroform < 1.0
Chloromethane < 1.0
2-Chlorotoluene < 1.0
4-Chlorotoluene < 1.0
1,2-Dibromo-3-chloropropane < 1.0
Dibromochloromethane < 1.0
1,2-Dibromoethane < 1.0
Dibromomethane < 1.0
1,2-Dichlorobenzene < 1.0
1,3-Dichlorobenzene < 1.0
1,4-Dichlorobenzene < 0.50
Dichlorodifluoromethane < 1.0
1,1-Dichloroethane < 1.0
1,2-Dichloroethane < 0.50
1,1-Dichloroethene < 0.50
cis-1,2-Dichloroethene < 1.0
trans-1,2-Dichloroethene < 1.0
1,2-Dichloropropane < 1.0

Volatile Organic Constituentµg/l

1,3-Dichloropropane < 1.0
2,2-Dichloropropane < 1.0
1,1-Dichloropropene < 1.0
cis-1,3-Dichloropropene < 1.0
trans-1,3-Dichloropropene < 1.0
Ethylbenzene < 1.0
Hexachlorobutadiene < 1.0
Isopropylbenzene < 1.0
p-Isopropyltoluene < 1.0
Methylene chloride < 1.0
Naphthalene < 1.0
n-Propylbenzene < 1.0
Styrene < 1.0
1,1,1,2-Tetrachloroethane < 1.0
1,1,2,2-Tetrachloroethane < 1.0
Tetrachloroethene < 0.50
Toluene < 1.0
1,2,3-Trichlorobenzene < 1.0
1,2,4-Trichlorobenzene < 1.0
1,1,1-Trichloroethane < 0.50
1,1,2-Trichloroethane < 1.0
Trichloroethene < 0.50
Trichlorofluoromethane < 1.0
1,2,3-Trichloropropane < 1.0
1,2,4-Trimethylbenzene < 1.0
1,3,5-Trimethylbenzene < 1.0
Vinyl chloride < 0.50
Xylenes < 1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8622
DATE: 03/24/92 crp

RECEIVED**MAR 25 1992****ENVIROCON, Inc.**
Livingston, Mt.WATER ANALYSIS

Livingston/BN, Project #140101

140101-1027

Sampled 02/27/92 @ 1500

Submitted 03/02/92

Analyzed 03/10/92

LG-1D

<u>Volatile Organic Constituent</u>	<u>ug/l</u>	<u>Volatile Organic Constituent</u>	<u>ug/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

✓

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8623
DATE: 03/24/92 crp

WATER ANALYSIS

Livingston/BN, Project #140101
140101-1028
Sampled 02/27/92 @ 1610
Submitted 03/02/92
Analyzed 03/09/92

6

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	1.5
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8624
DATE: 03/24/92 crp

RECEIVED**MAR 25 1992****ENVIROCON, Inc.
Livingston, MT****WATER ANALYSIS**

Livingston/BN, Project #140101

140101-1029

Sampled 02/27/92 @ 1655

Submitted 03/02/92

Analyzed 03/10/92

LS-8

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	28 *	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	74 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	13
1,4-Dichlorobenzene	3.7	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	78 *	Xylenes	< 1.0
trans-1,2-Dichloroethene	2.5		
1,2-Dichloropropane	< 1.0		

Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8625
DATE: 03/24/92 crp

WATER ANALYSIS

Livingston/BN, Project #140101

140101-1030

Sampled 02/27/92 @ 1745

Submitted 03/02/92

Analyzed 03/10/92

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	44 *	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	38 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	8.8
1,4-Dichlorobenzene	9.8	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	73 *	Xylenes	< 1.0
trans-1,2-Dichloroethene	1.4		
1,2-Dichloropropane	< 1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8626
DATE: 03/24/92 crpWATER ANALYSIS

Livingston/BN, Project #140101

140101-1031 90-3

Sampled 02/27/92 @ 1840

Submitted 03/02/92

Analyzed 03/10/92

RECEIVED

MAR 25 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	12
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	3.0
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	3.8	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

W 3/30/92
db 4/15/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8616 -26
DATE: 03/24/92 crp

WATER ANALYSIS

Livingston/BN, Project #140101
Sampled 02/27/92
Submitted 03/02/92
Analyzed 03/03/92

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, Mt.

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l (ppm)</u>
92-8616	140101-1021, Sampled @ 0945 1	0.4
92-8617	140101-1022, Sampled @ 1020 POTW	<0.1
92-8618	140101-1023, Sampled @ 1050 # 7	<0.1
92-8619	140101-1024, Sampled @ 1055 dup of # 7	<0.1
92-8620	140101-1025, Sampled @ 1238 L-88-10	<0.1
92-8621	140101-1026, Sampled @ 1400 89-11	<0.1
92-8622	140101-1027, Sampled @ 1500 LG-10	<0.1
92-8623	140101-1028, Sampled @ 1610 # 6	<0.1
92-8624	140101-1029, Sampled @ 1655 LS-8	<0.1
92-8625	140101-1030, Sampled @ 1745 LS-11	<0.1
92-8626	140101-1031, Sampled @ 1840 90-3	<0.1
Blank	Method Blank	<0.1 ✓

NOTE: Analysis done by EPA method 418.1.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8624
DATE: 03/10/92 rh

WATER ANALYSIS

Livingston/BN
Project # 140101
140101-1029
Sampled 02/27/92 @ 1655
Submitted 03/02/92

LS-8

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, Mt.

<u>Constituent</u>	<u>mg/l (ppm)</u>	<u>Date Analyzed</u>
Potassium	4	03/05/92
Sodium	44	03/05/92
Calcium	100	03/05/92
Magnesium	26	03/05/92
Sulfate	76	03/04/92
Chloride	18	03/04/92
✓ Carbonate	0	03/05/92
✓ Bicarbonate	435	03/05/92
✓ Total Alkalinity as CaCO ₃	357	03/05/92
Nitrate plus Nitrite as N	0.94	03/03/92
<u>Dissolved Metals</u>		
Aluminum	<0.1	03/04/92
Iron	<0.03	03/04/92
Manganese	<0.02	03/04/92
Silica	33.0	03/04/92



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8625
DATE: 03/10/92 rh

WATER ANALYSIS

Livingston/BN
Project # 140101
140101-1030
Sampled 02/27/92 @ 1745
Submitted 03/02/92

LS-11

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, Mt.

<u>Constituent</u>	<u>mg/l (ppm)</u>	<u>Date Analyzed</u>
Potassium	4	03/05/92
Sodium	44	03/05/92
Calcium	98	03/05/92
Magnesium	28	03/05/92
Sulfate	77	03/04/92
Chloride	18	03/04/92
✓ Carbonate	0	03/05/92
✓ Bicarbonate	438	03/05/92
Total Alkalinity as CaCO ₃	359	03/05/92
Nitrate plus Nitrite as N	0.67	03/03/92
<u>Dissolved Metals</u>		
Aluminum	<0.1	03/04/92
Iron	<0.03	03/04/92
Manganese	0.98	03/04/92
Silica	34.6	03/04/92

✓



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8626
DATE: 03/10/92 rh

WATER ANALYSIS

Livingston/BN
Project # 140101
140101-1031
Sampled 02/27/92 @ 1840
Submitted 03/02/92

90-3

RECEIVED
MAR 25 1992
ENVIROCON, Inc.
Livingston, Mt.

<u>Constituent</u>	<u>mg/l (ppm)</u>	<u>Date Analyzed</u>
Potassium	4	03/05/92
Sodium	32	03/05/92
Calcium	70	03/05/92
Magnesium	21	03/05/92
Sulfate	49	03/04/92
Chloride	13	03/04/92
✓ Carbonate	0	03/05/92
✓ Bicarbonate	315	03/05/92
Total Alkalinity as CaCO ₃	258	03/05/92
Nitrate plus Nitrite as N	0.17	03/03/92
<u>Dissolved Metals</u>		
Aluminum	<0.1	03/04/92
Iron	<0.03	03/04/92
Manganese	<0.02	03/04/92
✓ Silica	31.2	03/04/92



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 3/30/92

RECEIVED

MAR 30 1992

ENVIROCON, Inc.
Livingston, Mt.

March 26, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On March 2, 1992, these samples, represented by our laboratory numbers 92-8645 to 92-8652 were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: _____

for Stander's

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8646
DATE: 03/26/92 rhWATER ANALYSISLivingston/BN
140101-1037
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/12/92*Equip Blank***RECEIVED**

MAR 30 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	1.1
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8647
DATE: 03/26/92 rhWATER ANALYSISLivingston/BN
140101-1033
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/12/92

89-1

RECEIVED

MAR 30 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	9.6
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

M 3/30/92

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8648
DATE: 03/26/92 rhWATER ANALYSISLivingston/BN #3
140101-1034
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/12/92**RECEIVED**

MAR 30 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	0.72
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8649
DATE: 03/26/92 rh

RECEIVED

MAR 30 1992

ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1035
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/12/92

89-6

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	21
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	0.67
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M 3/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8650
DATE: 03/26/92 rh

RECEIVED

MAR 30 1992

ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1036
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/13/92

89-6
Dug

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	21
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	0.64
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

11/3/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8650 dup
DATE: 03/26/92 rh

RECEIVED

MAR 30 1992

ENVIROCON, Inc.
Livingston, MT

QUALITY ASSURANCE (DUPLICATE ANALYSIS)

Livingston/BN
140101-1036
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/13/92

89-6
Randy

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	21
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	0.63
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8651
DATE: 03/26/92 rhWATER ANALYSISLivingston/BN
140101-1038
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/12/92

89-10

RECEIVED
MAR 30 1992
ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	116 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	7.8
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	20	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

* Value derived from a 10x dilution of the sample.

m3/3092

LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8652
DATE: 03/26/92 rh**RECEIVED**
MAR 30 1992ENVIROCON, Inc.
Livingston, Mt.WATER ANALYSISLivingston/BN
140101-1039

8

Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/12/92

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	79 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	3.5
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	4.4	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

Value derived from a 10x dilution of the sample.

**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M 3/30/92
OK 4/5/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8647-52
DATE: 03/26/92 rh

RECEIVED

MAR 30 1992

ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
Sampled 02/28/92
Submitted 03/02/92
Analyzed 03/03/92

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l (ppm)</u>
92-8647	140101-1033 89-1	<0.1
92-8648	140101-1034 #3	0.3
92-8649	140101-1035 89-6	<0.1
92-8650	140101-1036 Ring of 89-6	<0.1
92-8651	140101-1038 89-10	<0.1
92-8652	140101-1039 #8	2.5
	Water Blank	<0.1 ✓

Analysis done by EPA Method 418.1.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M 3/30/92

RECEIVED

MAR 26 1992

ENVIROCON, Inc.
Livingston, Mt.

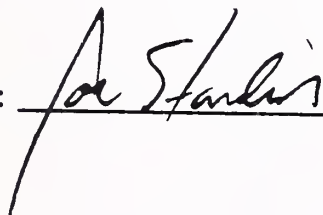
March 25, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On March 4, 1992 these samples, represented by our laboratory numbers 92-8813 to 92-8817, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:



LABORATORY REPORTTO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8813
DATE: 03/25/92 crpWATER ANALYSISLivingston/BN
140101-1041
Sampled 03/03/92 @ 0915
Submitted 03/04/92
Analyzed 03/16/92**RECEIVED**

MAR 26 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
m-Chlorotoluene	< 1.0	Tetrachloroethene	< 0.50
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	< 0.50
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	< 1.0	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047LAB NO.: 92-8814
DATE: 03/25/92 crp

WATER ANALYSIS

Livingston/BN 89-7
140101-1042
Sampled 03/03/92 @ 1045
Submitted 03/04/92
Analyzed 03/16/92

RECEIVED

MAR 26 1992

ENVIROCON, Inc.
Livingston, MT

<u>Volatile Organic Constituent</u>	<u>ug/l</u>	<u>Volatile Organic Constituent</u>	<u>ug/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	20
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	0.72
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	1.9
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8815
DATE: 03/25/92 crp

WATER ANALYSIS

Livingston/BN
140101-1043
Sampled 03/03/92 @ 1205
Submitted 03/04/92
Analyzed 03/16/92

RECEIVED

MAR 26 1992

ENVIROCON, Inc.
Livingston, Mt.

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	850 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	0.76
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	4.5	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

* Value derived from a 100x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8816
DATE: 03/25/92 crp

WATER ANALYSIS

Livingston/BN
140101-1044
Sampled 03/03/92 @ 1210
Submitted 03/04/92
Analyzed 03/16/92

RECEIVED**MAR 26 1992****ENVIROCON, Inc.
Livingston, Mt.**

<u>Volatile Organic Constituent</u>	<u>ug/l</u>	<u>Volatile Organic Constituent</u>	<u>ug/l</u>
Benzene	< 0.50	1,3-Dichloropropane	< 1.0
Bromobenzene	< 1.0	2,2-Dichloropropane	< 1.0
Bromochloromethane	< 1.0	1,1-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromoform	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromomethane	< 1.0	Ethylbenzene	< 1.0
n-Butylbenzene	< 1.0	Hexachlorobutadiene	< 1.0
sec-Butylbenzene	< 1.0	Isopropylbenzene	< 1.0
tert-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
Carbon tetrachloride	< 0.50	Methylene chloride	< 1.0
Chlorobenzene	< 1.0	Naphthalene	< 1.0
Chloroethane	< 1.0	n-Propylbenzene	< 1.0
Chloroform	< 1.0	Styrene	< 1.0
Chloromethane	< 1.0	1,1,1,2-Tetrachloroethane	< 1.0
2-Chlorotoluene	< 1.0	1,1,2,2-Tetrachloroethane	< 1.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	800 *
1,2-Dibromo-3-chloropropane	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 1.0	1,2,3-Trichlorobenzene	< 1.0
1,2-Dibromoethane	< 1.0	1,2,4-Trichlorobenzene	< 1.0
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.50
1,2-Dichlorobenzene	< 1.0	1,1,2-Trichloroethane	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichloroethene	0.66
1,4-Dichlorobenzene	< 0.50	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 1.0	1,2,3-Trichloropropane	< 1.0
1,1-Dichloroethane	< 1.0	1,2,4-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 0.50	1,3,5-Trimethylbenzene	< 1.0
1,1-Dichloroethene	< 0.50	Vinyl chloride	< 0.50
cis-1,2-Dichloroethene	4.5	Xylenes	< 1.0
trans-1,2-Dichloroethene	< 1.0		
1,2-Dichloropropane	< 1.0		

* Value derived from a 100x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M3/30/92
d6/4/92

LABORATORY REPORT

TO: Envirocon, Inc
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-8813 -16
DATE: 03/25/92 crp

RECEIVED

MAR 26 1992

ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
Sampled 03/03/92
Submitted 03/04/92
Analyzed 03/04/92

<u>Lab No.</u>	<u>Identification</u>	<u>Total Petroleum Hydrocarbons, mg/l (ppm)</u>
92-8813	140101-1041, Sampled @ 0915 LS-10	<0.1
92-8814	140101-1042, Sampled @ 1045 89-7	<0.1
92-8815	140101-1043, Sampled @ 1205 92-1	<0.1
92-8816	140101-1044, Sampled @ 1210 Dup of 92-1	<0.1
Blank	Method Blank ³	<0.1

NOTE: Analysis done by EPA method 418.1.



APPENDIX C
MARCH LABORATORY ANALYSES

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES

LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA

MARCH 1992 MONTHLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the March 1992 monthly sampling round.

Table 1: Groundwater medium analytical suites for samples collected on 03/31/92

Sample Station	Date	Envirocon ID#	Lab ID #	<u>EPA Methods</u>	
				524.2	601
89-2 (PS)	03/31/92	140101-1051	92-11785	0	31
89-3 (PS)	03/31/92	140101-1050	92-11784	0	31
B STREET (PS)	03/31/92	140101-1048	92-11786	58	0
LG-10 (PS)	03/31/92	140101-1049	92-11783	0	31

Explanation

- (PS) - Primary Sample
 - (FD) - Field Duplicate
 - (LD) - Laboratory Duplicate
-

2.0 EVALUATION OF BLANK ANALYSES

One trip blank was analyzed for this sampling round and no contaminants were found. Two laboratory blanks were analyzed for this sampling round and no contaminants were found. All the blank results are located at the end of this report.

3.0 EVALUATION OF DUPLICATE ANALYSES

No field or laboratory duplicates were analyzed for this sample round.

4.0 EVALUATION OF HOLDING TIMES

No holding times were exceeded for this sample round.

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

Surrogate spike recoveries were within recovery limits. The U.S. Environmental Protection Agency quality control results were within the control limits. Surrogate spike and U.S. EPA quality control results are located at the end of this report.

6.0 Validation Level Assignments

All analytical results are acceptable for quantitative data analysis for this sampling round.

Laboratory and Trip Blank Analytical Results

Chemical Parameter	LAB BLANK 1	LAB BLANK 2	TRIP BLANK 1 03/31/92
--------------------	-------------	-------------	--------------------------

Chemical Compound Class: Volatile Organic Compounds

Benzene, ug/L	-	< 0.5	-
Bromobenzene, ug/L	-	< 1.0	-
Bromochloromethane, ug/L	-	< 1.0	-
Bromodichloromethane, ug/L	< 1.0	< 1.0	< 1.0
Bromoform, ug/L	< 1.0	< 1.0	< 1.0
Bromomethane, ug/L	< 1.0	< 1.0	< 1.0
n-Butylbenzene, ug/L	-	< 1.0	-
sec-Butylbenzene, ug/L	-	< 1.0	-
tert-Butylbenzene, ug/L	-	< 1.0	-
Carbon tetrachloride, ug/L	< 0.5	< 0.5	< 0.5
Chlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
Chloroethane, ug/L	< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether, ug/L	< 1.0	-	< 1.0
Chloroform, ug/L	< 1.0	< 1.0	< 1.0
Chloromethane, ug/L	< 1.0	< 1.0	< 1.0
2-Chlorotoluene, ug/L	< 1.0	< 1.0	< 1.0
4-Chlorotoluene, ug/L	-	< 1.0	-
Dibromochloromethane, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane, ug/L	-	< 1.0	-
1,2-Dibromoethane, ug/L	-	< 1.0	-
Dibromomethane, ug/L	-	< 1.0	-
1,2-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene, ug/L	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene, ug/L	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane, ug/L	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane, ug/L	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene, ug/L	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene, ug/L	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane, ug/L	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane, ug/L	-	< 1.0	-
2,2-Dichloropropane, ug/L	-	< 1.0	-
1,1-Dichloropropene, ug/L	-	< 1.0	-
cis-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene, ug/L	< 1.0	< 1.0	< 1.0
Ethylbenzene, ug/L	-	< 1.0	-
Hexachlorobutadiene, ug/L	-	< 1.0	-
Isopropylbenzene, ug/L	-	< 1.0	-
p-Isopropyltoluene, ug/L	-	< 1.0	-
Methylene chloride, ug/L	< 1.0	< 1.0	< 1.0
Naphthalene, ug/L	-	< 1.0	-
n-Propylbenzene, ug/L	-	< 1.0	-
Styrene, ug/L	-	< 1.0	-
1,1,1,2-Tetrachloroethane, ug/L	-	< 1.0	-
1,1,2,2-Tetrachloroethane, ug/L	< 1.0	< 1.0	< 1.0
Tetrachloroethene, ug/L	< 0.5	< 0.5	< 0.5

Laboratory and Trip Blank Analytical Results

Chemical Parameter	LAB BLANK 1	LAB BLANK 2	TRIP BLANK 03/31/92
--------------------	-------------	-------------	------------------------

Chemical Compound Class: Volatile Organic Compounds

Toluene, ug/L	-	< 1.0	-
1,2,3-Trichlorobenzene, ug/L	-	< 1.0	-
1,2,4-Trichlorobenzene, ug/L	-	< 1.0	-
1,1,1-Trichloroethane, ug/L	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane, ug/L	< 1.0	< 1.0	< 1.0
Trichloroethene, ug/L	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane, ug/L	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane, ug/L	-	< 1.0	-
1,2,4-Trimethylbenzene, ug/L	-	< 1.0	-
1,3,5-Trimethylbenzene, ug/L	-	< 1.0	-
Vinyl chloride, ug/L	< 0.5	< 0.5	< 0.5
Xylenes, total, ug/L	-	< 1.0	-



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-11782-85
DATE: 04/23/92 rh

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% Recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-11782	103	93	92
92-11783	110	93	94
92-11784	114	102	92
92-11785	114	91	98

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

* Values outside of contract required QC limits.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

4/27/92
4/24/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-11786
DATE: 04/23/92 rh

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

<u>SAMPLE NO.</u>	-----% Recovery-----		
	<u>S1</u> <u>(TOL)#</u>	<u>S2</u> <u>(BFB)#</u>	<u>S3</u> <u>(DCE)#</u>
92-11786	113	97	100

S1 (TOL) = Toluene-d8
S2 (BFB) = Bromofluorobenzene
S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS, % Recovery
80-120
80-120
80-120

#Column to be used to flag recovery values with an asterisk.

* Values outside of contract required QC limits.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m4/27/92
db+24/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-11782-86
DATE: 04/23/92 rh

EPA VOLATILES QUALITY CONTROL SAMPLE

Volatile Organic Contaminants Mix 1

This EPA Quality Control sample was analyzed with your Lab
No.s 92-11782-11786 with the following results:

<u>Parameter</u>	<u>Spike Amount, µg/l</u>	<u>P(%)</u>	<u>Range for P(%)</u>
Carbon Tetrachloride	5.0	135	60-140
Chlorobenzene	5.0	102	60-140
1,3-Dichlorobenzene	5.0	123	60-140
1,4-Dichlorobenzene	5.0	112	60-140
1,2-Dichloroethane	5.0	90	60-140
1,1-Dichloroethene	5.0	98	60-140
trans-1,2-Dichloroethene	5.0	104	60-140
1,2-Dichloropropane	5.0	112	60-140
Ethylbenzene	5.0	126	60-140
Tetrachloroethene	5.0	116	60-140
1,1,2-Trichloroethane	5.0	92	60-140

P = Percent recovery measured.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m4/27/92
↓ b4/24/9

April 23, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On April 1, 1992, these samples, represented by our laboratory numbers 92-11782 to 92-11786 were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: _____

A handwritten signature in cursive script, appearing to read "J. Standish", written over a horizontal line.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m + 27-12
db + 1-4-12

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-11783
DATE: 04/23/92 rh

WATER ANALYSIS

Livingston/BN
140101-1049
Sampled 03/31/92
Submitted 04/01/92
Analyzed 04/14/92

16-10

CONSTITUENT

µg/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

✓

NOTE: This analysis is equivalent to EPA Methods 601/8010.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 4/27
d 12/24/4

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-11784
DATE: 04/23/92 rh

WATER ANALYSIS

Livingston/BN
140101-1050
Sampled 03/31/92
Submitted 04/01/92
Analyzed 04/13/92

89-3

CONSTITUENT

µg/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	255 *
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	0.59
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

✓

* Value derived from a 25x dilution of the sample.

NOTE: This analysis is equivalent to EPA Methods 601/8010.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

M 4/13
26 + 13 + 4

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-11785
DATE: 04/23/92 rh

WATER ANALYSIS

Livingston/BN
140101-1051
Sampled 03/31/92
Submitted 04/01/92
Analyzed 04/13/92

89-2

CONSTITUENT

µg/l

Purgeable Halocarbons (EPA Method 8260)

Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon tetrachloride	< 0.50
Chlorobenzene	< 1.0
Chloroethane	< 1.0
2-Chloroethylvinyl ether	< 1.0
2-Chlorotoluene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
Dibromochloromethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 0.50
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 0.50
1,1-Dichloroethene	< 0.50
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Methylene chloride	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 0.50
1,1,1-Trichloroethane	< 0.50
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 0.50
Trichlorofluoromethane	< 1.0
Vinyl chloride	< 0.50
Dichlorodifluoromethane	< 1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.



ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

m 4/27/92
db 4/24/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-11786
DATE: 04/23/92 rh

WATER ANALYSIS

Livingston/BN
140101-1048

B-Street

Sampled 03/31/92
Submitted 04/01/92
Analyzed 04/13/92

<u>Volatile Organic Constituent</u>	<u>µg/l</u>	<u>Volatile Organic Constituent</u>	<u>µg/l</u>
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

